

Package ‘installationDriver’

October 7, 2026

Version 1.0

Date 2026-09-26

Title Recursively Determine and Install Missing Dependencies

Maintainer Barry Zeeberg <barryz2013@gmail.com>

Author Barry Zeeberg [aut, cre]

Depends R (>= 4.2.0)

Imports tools, utils, vprint

Description

For a list of specified package, we automate recursively determining and installing the missing CRAN package dependencies (``Depends'', ``Imports'', ``LinkingTo''). The main mechanisms used are tools::package_dependencies() and utils::install.packages().

License GPL (>= 2)

Encoding UTF-8

VignetteBuilder knitr

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

Config/roxygen2/version 8.1.0

Config/testthat/edition 3

NeedsCompilation no

Repository CRAN

Date/Publication 2026-10-07 08:00:02 UTC

Contents

installationDriver	2
retrieveNamespace2	3

Index	4
--------------	----------

installationDriver	<i>installationDriver</i>
--------------------	---------------------------

Description

determine missing dependencies and install them, packs do not need to be installed or loaded

Usage

```
installationDriver(dir, packs, reportPacks = FALSE, verbose = 4)
```

Arguments

dir	character string containing the name of the directory holding packs
packs	list of package names
reportPacks	Boolean if FALSE do not return packages in parameter packs even if missing
verbose	integer passed to vprint()

Details

the return value 'missing' is a Boolean vector whose components are the names of missing dependencies
 a value of FALSE means that the missing dependency is no longer missing because it was successfully installed

Value

returns a Boolean vector confirming installation of missing dependencies, also has side effect of installing some or all missing dependencies

Examples

```
## Not run:
# you need to specify dir, packs that are on your own computer !!
# purposely remove a required library to make install go through its paces !!
remove.packages("hash")
dir1<-"~/personal/hearts/hearts_card_game_bayesian_inference"
dir2<-"packages/inference_packages/inference_packages/"
dir<-sprintf("%s/%s",dir1,dir2)
packs<-c("cardUtils","clickableImageMap","editDriver",
"heartsCIM","iterationDriver","logos","playOneTrick",
"playWholeHandDriverPassParams","probTab","relaxDriver")
missing<-installationDriver(dir,packs,reportPacks=FALSE,verbose=c(-1,4))

## End(Not run)
```

retrieveNamespace2	<i>retrieveNamespace2</i>
--------------------	---------------------------

Description

retrieve a list of the imported packages in a NAMESPACE FILE, packs do not need to be installed or loaded

Usage

```
retrieveNamespace2(dir, packs)
```

Arguments

dir	character string containing the name of the directory holding packs
packs	list of package names

Value

returns a list containing the imported package names

Examples

```
## Not run:
# you need to specify dir, packs that are on your own computer !!
dir1<-"~/personal/hearts/hearts_card_game_bayesian_inference"
dir2<-"packages/inference_packages/inference_packages/"
dir<-sprintf("%s/%s",dir1,dir2)
packs<-c("cardUtils","clickableImageMap","editDriver",
"heartsCIM","iterationDriver","logos","playOneTrick",
"playWholeHandDriverPassParams","probTab","relaxDriver")
rns<-retrieveNamespace2(dir,packs)

## End(Not run)
```

Index

installationDriver, [2](#)

retrieveNamespace2, [3](#)